

ABSTRACT

A contamination purification system which can be installed in a narrow space to efficiently treat soil contaminated with a volatile organic compound, even when it is at a relatively low concentration, without needing a large-scale purification unit, and can effectively utilize the recovered volatile organic compound by its combustion/electric power generation unit. More particularly, a contamination purification system for purification of an area contaminated with a volatile organic compound, which is composed of an extraction well located in the contaminated area, gas suction/exhausting unit for extracting the volatile organic compound from the extraction well, vapor-liquid separator for separating water accompanying the extracted volatile organic compound, and combustion/electric power generation unit for transforming energy produced by combusting the separated/recovered volatile organic compound into electric power, wherein the electric power produced by the combustion/electric power generation unit is used as a power for driving the contamination purification system.

[CHOSEN DRAWING]

Figure 1